Line 1 of the MCA Display when **No Alarms** are Present.

SYSTEM OK, NO ALARMS

Line 1 of the MCA Display when **Alarms** are Present.
(1 or more of the following Alarm Messages display. If more than 1 alarm conditions are present, Alarm Messages continuously scroll across the display.)

1	**EMERGENCY STOP INPUT ACTIVE**
2	**HI VOLTAGE SHUTDOWN INPUT ACTIVE**
2A	**ALTERNATE CURRENT LIMIT ACTIVE**
3	**SYSTEM VOLTAGE IS VERY LOW**
4	**SYSTEM BATTERY IS ON DISCHARGE**
5	**SYSTEM HIGH VOLTAGE #1 ALARM**
6	**SYSTEM HIGH VOLTAGE #2 ALARM**
7	**1 SYSTEM BREAKER OR FUSE ALARM** **or** **### SYSTEM BREAKER & FUSE ALARMS**
11	**AC POWER IS OFF TO ALL PCUs**
12	**1 PCU HAS FAILED** **or** **### PCUs HAVE FAILED** **or** **NO PCUs ARE IN INVENTORY**
40	**1 DIST. PANEL HAS FAILED** **or** **## DIST. PANELS HAVE FAILED** **or** **NO DIST. PANELS ARE IN INVENTORY**
55	**1 I/O BOARD HAS FAILED** **or** **## I/O BOARDS HAVE FAILED** **or** **NO I/O BOARDS ARE IN INVENTORY**
66	**1 ROUTER HAS FAILED** **or** **## ROUTERS HAVE FAILED** **or** **NO ROUTERS ARE IN INVENTORY**
78	**1 RELAY BOARD HAS FAILED** **or** **## RELAY BOARDS HAVE FAILED** **or** **NO RELAY BOARDS ARE IN INVENTORY**
88	**HIGH TEMPERATURE #1 ALARM**
89	**HIGH TEMPERATURE #2 ALARM**
90	**LOW TEMPERATURE #1 ALARM**
91	**LOW TEMPERATURE #2 ALARM**
92	**TEMPERATURE SENSOR NO SIGNAL**
93	**MAJOR MONITORING ALARM(S)** **or** **Monitoring Major LED Messages**
94	**MINOR MONITORING ALARM(S)** **or** **Monitoring Minor LED Messages**
95	**MONITORING INFORMATION** **or** **Monitoring Info LED Messages**
96	**MONITORING DOES NOT RESPOND**
97	**CONTROLLER FAILURE ####**
98	**THE CONTROLLER IS INITIALIZING**
99	**TOTAL LOAD CURRENT ALARM**
100	**DISTRIBUTION GROUP A LOAD ALARM**
101	**DISTRIBUTION GROUP B LOAD ALARM**
102	**THE DISPLAY DOES NOT RESPOND**

Line 2 of the MCA Display.
System Output Voltage and System Output Current.

vv.vvV aaaaaA

or

any of the following messages as a User navigates the MCA Menu tree.

CHANGE THE VARIABLE	**Text displayed while changing a value.**
ARE YOU SURE?	**Text displayed while storing a value.**
CHANGES ARE DISABLED	**Text displayed if local changes are disabled.**
<CONDITION> LIMITED	**Text displayed if value cannot be changed further.**
RELAY FUNCTION A#	**Text displayed while in Relay Function Definition Menu.**
WARNING: TOTAL POWER LOSS IS POSSIBLE. GO AHEAD ANYWAY?	**Text displayed before changing Test High Voltage Shutdown value.**

Navigation Key Codes (displays in **4th Line** as a User navigates the MCA Menu Tree).

♪	alarm cutoff
i	information available
+	increment
-	decrement
Y	yes
N	no
▲	up
▼	down
▶	right
◀	left
E	enter
▶♪	alarm cutoff/ enter together
±	yes/no together

Color Code:

Identify Unit
Identify Unit, Changeable Parameter
Changeable Parameter

Black indicates text that does not change.

Red indicates places where the MCA substitutes a fixed number or text string.

Blue indicates places where the MCA substitutes a number or text string that can be scrolled through different values.

Key:

a = amps
v = volts
t = temperature
h = hours
m = minutes
s = seconds
d = day of the month
mon = month
y = year
# = substituted number or text
A# = alarm function number
B# = bay number
I# = binary input number
P# = position number
ID# = PCU (Rectifier) MCA identification number
N# = Total number of PCUs (Rectifiers) in the system
SN# = PCU (Rectifier) serial number
R# = relay number
A/B = A (group A, jumper on) or B (group B, jumper off) or space (all jumpers on)
C/F = C (Celsius) or F (Fahrenheit)
F/CB/PI = FUSE or BREAKER or PLUG-IN or MISC 50-73
<CONDITION> = FLOAT or TEST/EQ or HV SHUTDOWN or HIGH RANGE or LOW RANGE or MAX. COMP. or MIN. COMP.
✓/_ = ✓ (condition is selected) or space (condition not selected)
♪/✓ = ♪ (alarms were present) or ✓ (no alarms present)

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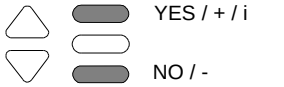
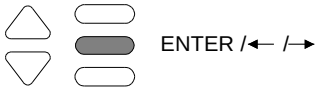
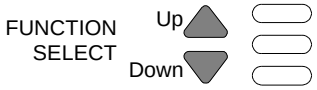
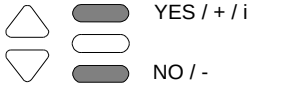
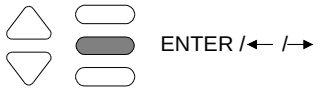
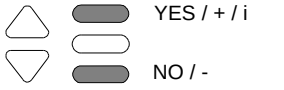
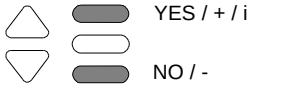
TASK	KEY OR KEY COMBINATIONS	NOTES
Getting to Home Position	<u>YES / + / i and NO / -</u>  	At any level in the MCA menus, pressing **YES / + / i** and **NO / -** simultaneously takes you back to the beginning of the MCA menu tree.
Moving from One Menu to Another Menu	<u>ENTER</u>  	You can travel left to right from one menu to another by pressing **ENTER**. You can also go back to a specified menu by pressing **ENTER** while the menu's name is being displayed.
Moving Within a Menu	<u>UP ARROW, DOWN ARROW</u>  	Press **UP ARROW** to move up the list of available entries in the active menu. Press **DOWN ARROW** to move down the list of available entries in the active menu.
<u>Changing a Value or Setting</u> Entering the Adjustment/Change Setting Mode	<u>ENTER and ALARM CUTOFF</u> 	Changing a value or setting requires four (4) steps. 1. With the current value or setting being displayed, simultaneously press **ENTER** and **ALARM CUTOFF**. 2. To increase the value or change the setting, press **YES / + / i**. To decrease the value or change the setting, press **NO / -**. 3. With the correct value or setting being displayed, press **ENTER**. 4. To accept the change, at the "ARE YOU SURE?" prompt press **YES / + / i**. To reject the change, at the "ARE YOU SURE?" prompt press **NO / -**.
Changing the Value or Setting	<u>YES / + / i and NO / -</u>  	
Locking the Change	<u>ENTER</u>  	
Confirming the Change	<u>YES / + / i and NO / -</u>  	
<u>Changing a Control Function</u> Entering the Adjustment/Change Setting Mode	<u>ENTER and ALARM CUTOFF</u> 	Changing a control function requires two (2) steps. 1. With the control function menu item being displayed, simultaneously press **ENTER** and **ALARM CUTOFF**. 2. To accept the change, at the "ARE YOU SURE?" prompt press the **YES / + / i**. To reject the change, at the "ARE YOU SURE?" prompt press **NO / -**.
Confirming the Change	<u>YES / + / i and NO / -</u>  	

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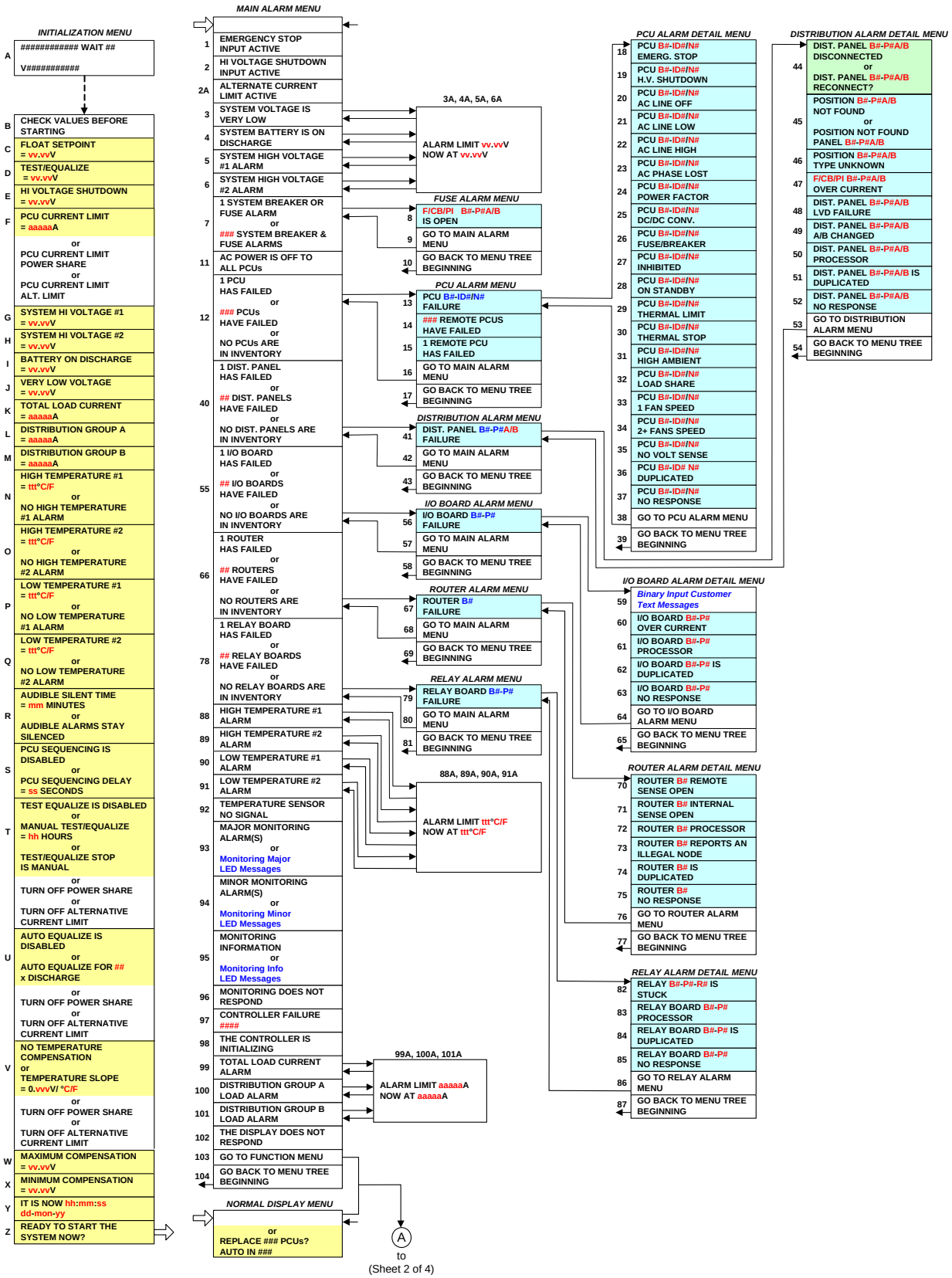
The User navigates **Lines 3 and 4** of the MCA Display using the Keypad on the MCA Control Panel. (The following indicates the actual text shown on each line of Lines 3 and 4 of the MCA Display, Line 4 also displays applicable navigation key codes, see previous page for explanation of codes.)


INITIALIZATION MENU
A ############ WAIT ##
V############
B CHECK VALUES BEFORE STARTING
C FLOAT SETPOINT = vv.vvV
D TEST/EQUALIZE = vv.vvV
E HI VOLTAGE SHUTDOWN = vv.vvV
F PCU CURRENT LIMIT = aaaaaA
or
PCU CURRENT LIMIT POWER SHARE
or
PCU CURRENT LIMIT ALT. LIMIT
G SYSTEM HI VOLTAGE #1 = vv.vvV
H SYSTEM HI VOLTAGE #2 = vv.vvV
I BATTERY ON DISCHARGE = vv.vvV
J VERY LOW VOLTAGE = vv.vvV
K TOTAL LOAD CURRENT = aaaaaA
L DISTRIBUTION GROUP A = aaaaaA
M DISTRIBUTION GROUP B = aaaaaA
N HIGH TEMPERATURE #1 = ttt°C/F
or
NO HIGH TEMPERATURE #1 ALARM
O HIGH TEMPERATURE #2 = ttt°C/F
or
NO HIGH TEMPERATURE #2 ALARM
P LOW TEMPERATURE #1 = ttt°C/F
or
NO LOW TEMPERATURE #1 ALARM
Q LOW TEMPERATURE #2 = ttt°C/F
or
NO LOW TEMPERATURE #2 ALARM
R AUDIBLE SILENT TIME = mm MINUTES
or
AUDIBLE ALARMS STAY SILENCED
S PCU SEQUENCING IS DISABLED
or
PCU SEQUENCING DELAY = ss SECONDS
T TEST EQUALIZE IS DISABLED
or
MANUAL TEST/EQUALIZE = hh HOURS
or
TEST/EQUALIZE STOP IS MANUAL
or
TURN OFF POWER SHARE
or
TURN OFF ALTERNATIVE CURRENT LIMIT
U AUTO EQUALIZE IS DISABLED
or
AUTO EQUALIZE FOR ## x DISCHARGE
or
TURN OFF POWER SHARE
or
TURN OFF ALTERNATIVE CURRENT LIMIT
V NO TEMPERATURE COMPENSATION
or
TEMPERATURE SLOPE = 0.vvv/ °C/F
or
TURN OFF POWER SHARE
or
TURN OFF ALTERNATIVE CURRENT LIMIT
W MAXIMUM COMPENSATION = vv.vvV
X MINIMUM COMPENSATION = vv.vvV
Y IT IS NOW hh:mm:ss dd-mon-yy
Z READY TO START THE SYSTEM NOW?
MAIN ALARM MENU
1 EMERGENCY STOP INPUT ACTIVE
2 HI VOLTAGE SHUTDOWN INPUT ACTIVE
2A ALTERNATE CURRENT LIMIT ACTIVE
3 SYSTEM VOLTAGE IS VERY LOW
4 SYSTEM BATTERY IS ON DISCHARGE
5 SYSTEM HIGH VOLTAGE #1 ALARM
6 SYSTEM HIGH VOLTAGE #2 ALARM
7 1 SYSTEM BREAKER OR FUSE ALARM
or
SYSTEM BREAKER & FUSE ALARMS
11 AC POWER IS OFF TO ALL PCUs
12 1 PCU HAS FAILED
or
PCUs HAVE FAILED
or
NO PCUs ARE IN INVENTORY
40 1 DIST. PANEL HAS FAILED
or
DIST. PANELS HAVE FAILED
or
NO DIST. PANELS ARE IN INVENTORY
55 1 I/O BOARD HAS FAILED
or
I/O BOARDS HAVE FAILED
or
NO I/O BOARDS ARE IN INVENTORY
66 1 ROUTER HAS FAILED
or
ROUTERS HAVE FAILED
or
NO ROUTERS ARE IN INVENTORY
78 1 RELAY BOARD HAS FAILED
or
RELAY BOARDS HAVE FAILED
or
NO RELAY BOARDS ARE IN INVENTORY
88 HIGH TEMPERATURE #1 ALARM
89 HIGH TEMPERATURE #2 ALARM
90 LOW TEMPERATURE #1 ALARM
91 LOW TEMPERATURE #2 ALARM
92 TEMPERATURE SENSOR NO SIGNAL
93 MAJOR MONITORING ALARM(S)
or
Monitoring Major LED Messages
94 MINOR MONITORING ALARM(S)
or
Monitoring Minor LED Messages
95 MONITORING INFORMATION
or
Monitoring Info LED Messages
96 MONITORING DOES NOT RESPOND
97 CONTROLLER FAILURE ####
98 THE CONTROLLER IS INITIALIZING
99 TOTAL LOAD CURRENT ALARM
100 DISTRIBUTION GROUP A LOAD ALARM
101 DISTRIBUTION GROUP B LOAD ALARM
102 THE DISPLAY DOES NOT RESPOND
103 GO TO FUNCTION MENU
104 GO BACK TO MENU TREE BEGINNING
NORMAL DISPLAY MENU
or
REPLACE ### PCUs?
AUTO IN ###
3A, 4A, 5A, 6A
ALARM LIMIT vv.vvV
NOW AT vv.vvV
FUSE ALARM MENU
8 F/CB/PI B#-P#A/B IS OPEN
9 GO TO MAIN ALARM MENU
10 GO BACK TO MENU TREE BEGINNING
PCU ALARM MENU
13 PCU B#-ID#/N# FAILURE
14 ### REMOTE PCUS HAVE FAILED
15 1 REMOTE PCU HAS FAILED
16 GO TO MAIN ALARM MENU
17 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION ALARM MENU
41 DIST. PANEL B#-P#A/B FAILURE
42 GO TO MAIN ALARM MENU
43 GO BACK TO MENU TREE BEGINNING
I/O BOARD ALARM MENU
56 I/O BOARD B#-P# FAILURE
57 GO TO MAIN ALARM MENU
58 GO BACK TO MENU TREE BEGINNING
ROUTER ALARM MENU
67 ROUTER B# FAILURE
68 GO TO MAIN ALARM MENU
69 GO BACK TO MENU TREE BEGINNING
RELAY ALARM MENU
79 RELAY BOARD B#-P# FAILURE
80 GO TO MAIN ALARM MENU
81 GO BACK TO MENU TREE BEGINNING
88A, 89A, 90A, 91A
ALARM LIMIT ttt°C/F
NOW AT ttt°C/F
99A, 100A, 101A
ALARM LIMIT aaaaaA
NOW AT aaaaaA
A
to
(Sheet 2 of 4)
PCU ALARM DETAIL MENU
18 PCU B#-ID#/N# EMERG. STOP
19 PCU B#-ID#/N# H.V. SHUTDOWN
20 PCU B#-ID#/N# AC LINE OFF
21 PCU B#-ID#/N# AC LINE LOW
22 PCU B#-ID#/N# AC LINE HIGH
23 PCU B#-ID#/N# AC PHASE LOST
24 PCU B#-ID#/N# POWER FACTOR
25 PCU B#-ID#/N# DC/DC CONV.
26 PCU B#-ID#/N# FUSE/BREAKER
27 PCU B#-ID#/N# INHIBITED
28 PCU B#-ID#/N# ON STANDBY
29 PCU B#-ID#/N# THERMAL LIMIT
30 PCU B#-ID#/N# THERMAL STOP
31 PCU B#-ID#/N# HIGH AMBIENT
32 PCU B#-ID#/N# LOAD SHARE
33 PCU B#-ID#/N# 1 FAN SPEED
34 PCU B#-ID#/N# 2+ FANS SPEED
35 PCU B#-ID#/N# NO VOLT SENSE
36 PCU B#-ID# N# DUPLICATED
37 PCU B#-ID#/N# NO RESPONSE
38 GO TO PCU ALARM MENU
39 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION ALARM DETAIL MENU
44 DIST. PANEL B#-P#A/B DISCONNECTED
or
DIST. PANEL B#-P#A/B RECONNECT?
45 POSITION B#-P#A/B NOT FOUND
or
POSITION NOT FOUND PANEL B#-P#A/B
46 POSITION B#-P#A/B TYPE UNKNOWN
47 F/CB/PI B#-P#A/B OVER CURRENT
48 DIST. PANEL B#-P#A/B LVD FAILURE
49 DIST. PANEL B#-P#A/B A/B CHANGED
50 DIST. PANEL B#-P#A/B PROCESSOR
51 DIST. PANEL B#-P#A/B IS DUPLICATED
52 DIST. PANEL B#-P#A/B NO RESPONSE
53 GO TO DISTRIBUTION ALARM MENU
54 GO BACK TO MENU TREE BEGINNING
I/O BOARD ALARM DETAIL MENU
59 Binary Input Customer Text Messages
60 I/O BOARD B#-P# OVER CURRENT
61 I/O BOARD B#-P# PROCESSOR
62 I/O BOARD B#-P# IS DUPLICATED
63 I/O BOARD B#-P# NO RESPONSE
64 GO TO I/O BOARD ALARM MENU
65 GO BACK TO MENU TREE BEGINNING
ROUTER ALARM DETAIL MENU
70 ROUTER B# REMOTE SENSE OPEN
71 ROUTER B# INTERNAL SENSE OPEN
72 ROUTER B# PROCESSOR
73 ROUTER B# REPORTS AN ILLEGAL NODE
74 ROUTER B# IS DUPLICATED
75 ROUTER B# NO RESPONSE
76 GO TO ROUTER ALARM MENU
77 GO BACK TO MENU TREE BEGINNING
RELAY ALARM DETAIL MENU
82 RELAY B#-P#-R# IS STUCK
83 RELAY BOARD B#-P# PROCESSOR
84 RELAY BOARD B#-P# IS DUPLICATED
85 RELAY BOARD B#-P# NO RESPONSE
86 GO TO RELAY ALARM MENU
87 GO BACK TO MENU TREE BEGINNING

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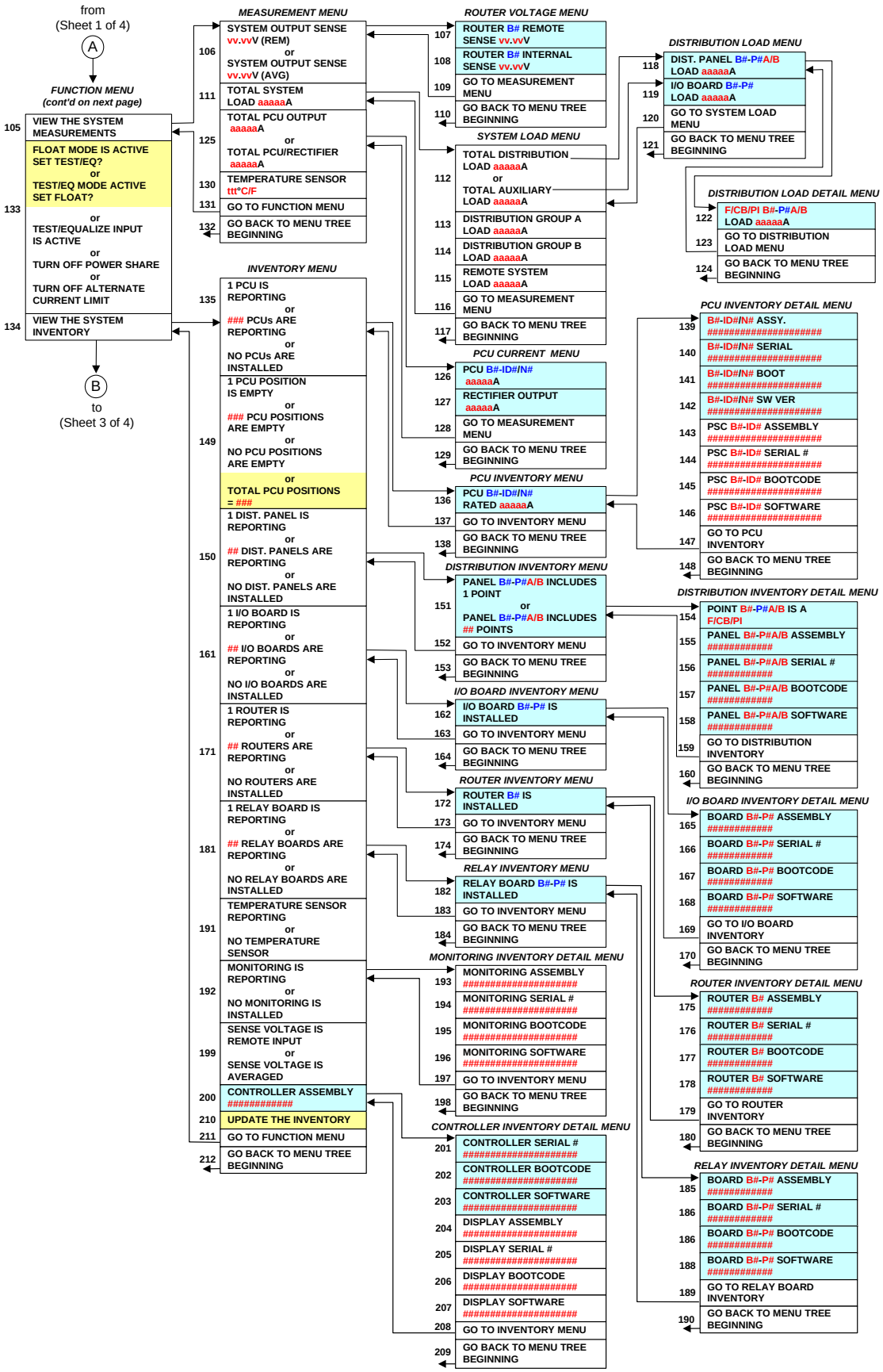
from
(Sheet 1 of 4)
A
FUNCTION MENU
(cont'd on next page)
105 VIEW THE SYSTEM MEASUREMENTS
FLOAT MODE IS ACTIVE
SET TEST/EQ?
or
TEST/EQ MODE ACTIVE
SET FLOAT?
133
or
TEST/EQUALIZE INPUT IS ACTIVE
or
TURN OFF POWER SHARE
or
TURN OFF ALTERNATE CURRENT LIMIT
134 VIEW THE SYSTEM INVENTORY
B
to
(Sheet 3 of 4)
MEASUREMENT MENU
106 SYSTEM OUTPUT SENSE vv.vvV (REM) or SYSTEM OUTPUT SENSE vv.vvV (AVG)
111 TOTAL SYSTEM LOAD aaaaaA
125 TOTAL PCU OUTPUT aaaaaA or TOTAL PCU/RECTIFIER aaaaaA
130 TEMPERATURE SENSOR ttt°C/F
131 GO TO FUNCTION MENU
132 GO BACK TO MENU TREE BEGINNING
INVENTORY MENU
135 1 PCU IS REPORTING or ### PCUs ARE REPORTING or NO PCUs ARE INSTALLED
149 1 PCU POSITION IS EMPTY or ### PCU POSITIONS ARE EMPTY or NO PCU POSITIONS ARE EMPTY or TOTAL PCU POSITIONS = ###
150 1 DIST. PANEL IS REPORTING or ## DIST. PANELS ARE REPORTING or NO DIST. PANELS ARE INSTALLED
161 1 I/O BOARD IS REPORTING or ## I/O BOARDS ARE REPORTING or NO I/O BOARDS ARE INSTALLED
171 1 ROUTER IS REPORTING or ## ROUTERS ARE REPORTING or NO ROUTERS ARE INSTALLED
181 1 RELAY BOARD IS REPORTING or ## RELAY BOARDS ARE REPORTING or NO RELAY BOARDS ARE INSTALLED
191 TEMPERATURE SENSOR REPORTING or NO TEMPERATURE SENSOR
192 MONITORING IS REPORTING or NO MONITORING IS INSTALLED
199 SENSE VOLTAGE IS REMOTE INPUT or SENSE VOLTAGE IS AVERAGED
200 CONTROLLER ASSEMBLY ############
210 UPDATE THE INVENTORY
211 GO TO FUNCTION MENU
212 GO BACK TO MENU TREE BEGINNING
ROUTER VOLTAGE MENU
107 ROUTER B# REMOTE SENSE vv.vvV
108 ROUTER B# INTERNAL SENSE vv.vvV
109 GO TO MEASUREMENT MENU
110 GO BACK TO MENU TREE BEGINNING
SYSTEM LOAD MENU
112 TOTAL DISTRIBUTION LOAD aaaaaA or TOTAL AUXILIARY LOAD aaaaaA
113 DISTRIBUTION GROUP A LOAD aaaaaA
114 DISTRIBUTION GROUP B LOAD aaaaaA
115 REMOTE SYSTEM LOAD aaaaaA
116 GO TO MEASUREMENT MENU
117 GO BACK TO MENU TREE BEGINNING
PCU CURRENT MENU
126 PCU B#-ID#/N# aaaaaA
127 RECTIFIER OUTPUT aaaaaA
128 GO TO MEASUREMENT MENU
129 GO BACK TO MENU TREE BEGINNING
PCU INVENTORY MENU
136 PCU B#-ID#/N# RATED aaaaaA
137 GO TO INVENTORY MENU
138 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION INVENTORY MENU
151 PANEL B#-P#A/B INCLUDES 1 POINT or PANEL B#-P#A/B INCLUDES ## POINTS
152 GO TO INVENTORY MENU
153 GO BACK TO MENU TREE BEGINNING
I/O BOARD INVENTORY MENU
162 I/O BOARD B#-P# IS INSTALLED
163 GO TO INVENTORY MENU
164 GO BACK TO MENU TREE BEGINNING
ROUTER INVENTORY MENU
172 ROUTER B# IS INSTALLED
173 GO TO INVENTORY MENU
174 GO BACK TO MENU TREE BEGINNING
RELAY INVENTORY MENU
182 RELAY BOARD B#-P# IS INSTALLED
183 GO TO INVENTORY MENU
184 GO BACK TO MENU TREE BEGINNING
MONITORING INVENTORY DETAIL MENU
193 MONITORING ASSEMBLY ####################
194 MONITORING SERIAL # ####################
195 MONITORING BOOTCODE ####################
196 MONITORING SOFTWARE ####################
197 GO TO INVENTORY MENU
198 GO BACK TO MENU TREE BEGINNING
CONTROLLER INVENTORY DETAIL MENU
201 CONTROLLER SERIAL # ####################
202 CONTROLLER BOOTCODE ####################
203 CONTROLLER SOFTWARE ####################
204 DISPLAY ASSEMBLY ####################
205 DISPLAY SERIAL # ####################
206 DISPLAY BOOTCODE ####################
207 DISPLAY SOFTWARE ####################
208 GO TO INVENTORY MENU
209 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION LOAD MENU
118 DIST. PANEL B#-P#A/B LOAD aaaaaA
119 I/O BOARD B#-P# LOAD aaaaaA
120 GO TO SYSTEM LOAD MENU
121 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION LOAD DETAIL MENU
122 F/CB/PI B#-P#A/B LOAD aaaaaA
123 GO TO DISTRIBUTION LOAD MENU
124 GO BACK TO MENU TREE BEGINNING
PCU INVENTORY DETAIL MENU
139 B#-ID#/N# ASSY. ####################
140 B#-ID#/N# SERIAL ####################
141 B#-ID#/N# BOOT ####################
142 B#-ID#/N# SW VER ####################
143 PSC B#-ID# ASSEMBLY ####################
144 PSC B#-ID# SERIAL # ####################
145 PSC B#-ID# BOOTCODE ####################
146 PSC B#-ID# SOFTWARE ####################
147 GO TO PCU INVENTORY
148 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION INVENTORY DETAIL MENU
154 POINT B#-P#A/B IS A F/CB/PI
155 PANEL B#-P#A/B ASSEMBLY ############
156 PANEL B#-P#A/B SERIAL # ############
157 PANEL B#-P#A/B BOOTCODE ############
158 PANEL B#-P#A/B SOFTWARE ############
159 GO TO DISTRIBUTION INVENTORY
160 GO BACK TO MENU TREE BEGINNING
I/O BOARD INVENTORY DETAIL MENU
165 BOARD B#-P# ASSEMBLY ############
166 BOARD B#-P# SERIAL # ############
167 BOARD B#-P# BOOTCODE ############
168 BOARD B#-P# SOFTWARE ############
169 GO TO I/O BOARD INVENTORY
170 GO BACK TO MENU TREE BEGINNING
ROUTER INVENTORY DETAIL MENU
175 ROUTER B# ASSEMBLY ############
176 ROUTER B# SERIAL # ############
177 ROUTER B# BOOTCODE ############
178 ROUTER B# SOFTWARE ############
179 GO TO ROUTER INVENTORY
180 GO BACK TO MENU TREE BEGINNING
RELAY INVENTORY DETAIL MENU
185 BOARD B#-P# ASSEMBLY ############
186 BOARD B#-P# SERIAL # ############
186 BOARD B#-P# BOOTCODE ############
188 BOARD B#-P# SOFTWARE ############
189 GO TO RELAY BOARD INVENTORY
190 GO BACK TO MENU TREE BEGINNING

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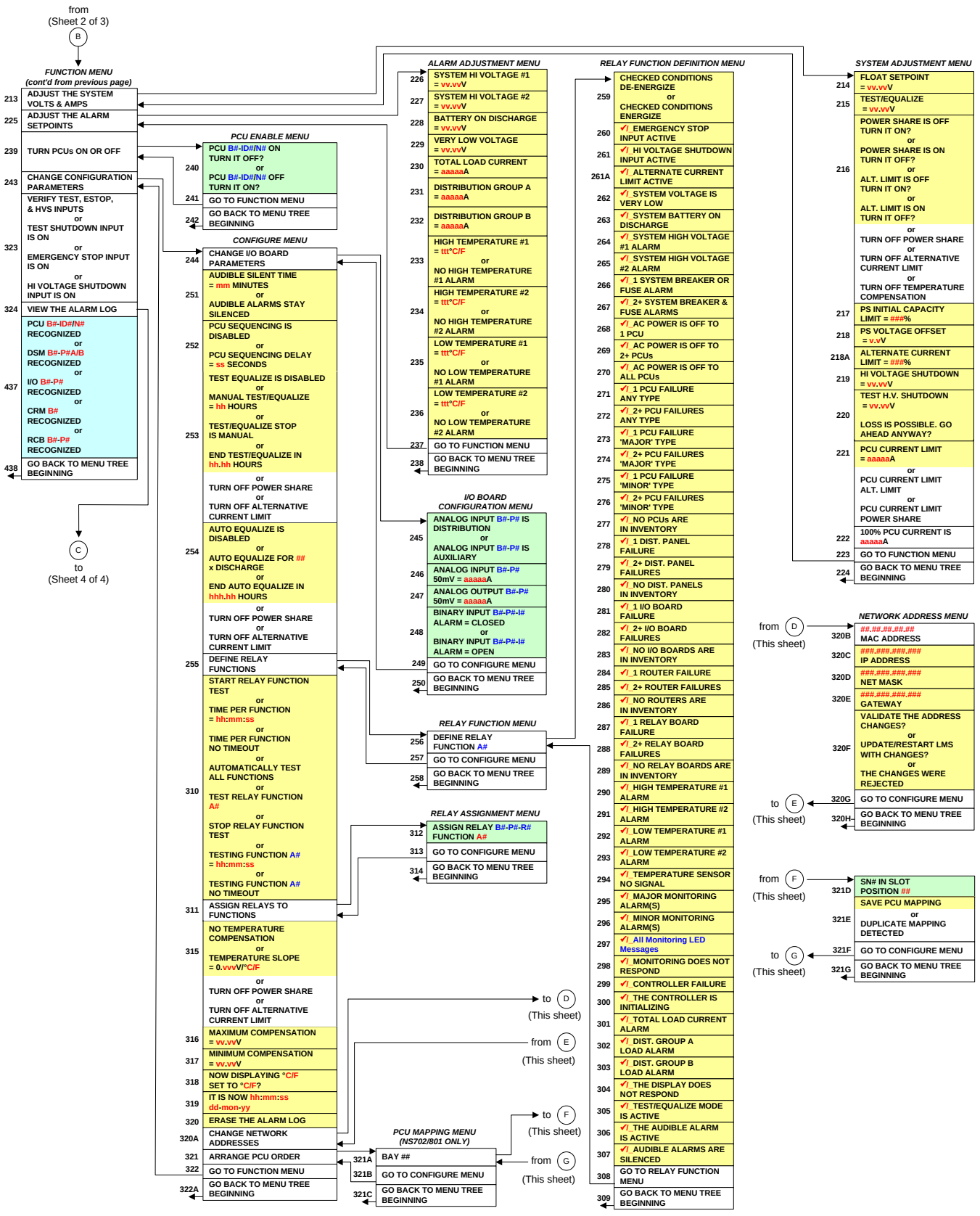
from (Sheet 2 of 3)
B
FUNCTION MENU (cont'd from previous page)
213 ADJUST THE SYSTEM VOLTS & AMPS
225 ADJUST THE ALARM SETPOINTS
239 TURN PCUs ON OR OFF
243 CHANGE CONFIGURATION PARAMETERS
VERIFY TEST, ESTOP, & HVS INPUTS or TEST SHUTDOWN INPUT IS ON or 323 EMERGENCY STOP INPUT IS ON or HI VOLTAGE SHUTDOWN INPUT IS ON
324 VIEW THE ALARM LOG
PCU B#-ID#/N# RECOGNIZED or DSM B#-P#A/B RECOGNIZED or 437 I/O B#-P# RECOGNIZED or CRM B# RECOGNIZED or RCB B#-P# RECOGNIZED
438 GO BACK TO MENU TREE BEGINNING
C
to (Sheet 4 of 4)
PCU ENABLE MENU
240 PCU B#-ID#/N# ON TURN IT OFF? or PCU B#-ID#/N# OFF TURN IT ON?
241 GO TO FUNCTION MENU
242 GO BACK TO MENU TREE BEGINNING
CONFIGURE MENU
244 CHANGE I/O BOARD PARAMETERS
251 AUDIBLE SILENT TIME = mm MINUTES or AUDIBLE ALARMS STAY SILENCED
252 PCU SEQUENCING IS DISABLED or PCU SEQUENCING DELAY = ss SECONDS
253 TEST EQUALIZE IS DISABLED or MANUAL TEST/EQUALIZE = hh HOURS or TEST/EQUALIZE STOP IS MANUAL or END TEST/EQUALIZE IN hh.hh HOURS or TURN OFF POWER SHARE or TURN OFF ALTERNATIVE CURRENT LIMIT
254 AUTO EQUALIZE IS DISABLED or AUTO EQUALIZE FOR ## x DISCHARGE or END AUTO EQUALIZE IN hhh.hh HOURS or TURN OFF POWER SHARE or TURN OFF ALTERNATIVE CURRENT LIMIT
255 DEFINE RELAY FUNCTIONS
START RELAY FUNCTION TEST or TIME PER FUNCTION = hh:mm:ss or TIME PER FUNCTION NO TIMEOUT or AUTOMATICALLY TEST ALL FUNCTIONS or 310 TEST RELAY FUNCTION A# or STOP RELAY FUNCTION TEST or TESTING FUNCTION A# = hh:mm:ss or TESTING FUNCTION A# NO TIMEOUT
311 ASSIGN RELAYS TO FUNCTIONS
NO TEMPERATURE COMPENSATION or 315 TEMPERATURE SLOPE = 0.vvv V/°C/F or TURN OFF POWER SHARE or TURN OFF ALTERNATIVE CURRENT LIMIT
316 MAXIMUM COMPENSATION = vv.vv V
317 MINIMUM COMPENSATION = vv.vv V
318 NOW DISPLAYING °C/F SET TO °C/F?
319 IT IS NOW hh:mm:ss dd-mon-yy
320 ERASE THE ALARM LOG
320A CHANGE NETWORK ADDRESSES
321 ARRANGE PCU ORDER
322 GO TO FUNCTION MENU
322A GO BACK TO MENU TREE BEGINNING
ALARM ADJUSTMENT MENU
226 SYSTEM HI VOLTAGE #1 = vv.vv V
227 SYSTEM HI VOLTAGE #2 = vv.vv V
228 BATTERY ON DISCHARGE = vv.vv V
229 VERY LOW VOLTAGE = vv.vv V
230 TOTAL LOAD CURRENT = aaaaa A
231 DISTRIBUTION GROUP A = aaaaa A
232 DISTRIBUTION GROUP B = aaaaa A
HIGH TEMPERATURE #1 = ttt°C/F or 233 NO HIGH TEMPERATURE #1 ALARM
HIGH TEMPERATURE #2 = ttt°C/F or 234 NO HIGH TEMPERATURE #2 ALARM
LOW TEMPERATURE #1 = ttt°C/F or 235 NO LOW TEMPERATURE #1 ALARM
LOW TEMPERATURE #2 = ttt°C/F or 236 NO LOW TEMPERATURE #2 ALARM
237 GO TO FUNCTION MENU
238 GO BACK TO MENU TREE BEGINNING
I/O BOARD CONFIGURATION MENU
245 ANALOG INPUT B#-P# IS DISTRIBUTION or ANALOG INPUT B#-P# IS AUXILIARY
246 ANALOG INPUT B#-P# 50mV = aaaaa A
247 ANALOG OUTPUT B#-P# 50mV = aaaaa A
248 BINARY INPUT B#-P#-I# ALARM = CLOSED or BINARY INPUT B#-P#-I# ALARM = OPEN
249 GO TO CONFIGURE MENU
250 GO BACK TO MENU TREE BEGINNING
RELAY FUNCTION MENU
256 DEFINE RELAY FUNCTION A#
257 GO TO CONFIGURE MENU
258 GO BACK TO MENU TREE BEGINNING
RELAY ASSIGNMENT MENU
312 ASSIGN RELAY B#-P#-R# FUNCTION A#
313 GO TO CONFIGURE MENU
314 GO BACK TO MENU TREE BEGINNING
PCU MAPPING MENU (NS702/801 ONLY)
321A BAY ##
321B GO TO CONFIGURE MENU
321C GO BACK TO MENU TREE BEGINNING
to D (This sheet)
from E (This sheet)
to F (This sheet)
from G (This sheet)
RELAY FUNCTION DEFINITION MENU
259 CHECKED CONDITIONS DE-ENERGIZE or CHECKED CONDITIONS ENERGIZE
260 /! EMERGENCY STOP INPUT ACTIVE
261 /! HI VOLTAGE SHUTDOWN INPUT ACTIVE
261A /! ALTERNATE CURRENT LIMIT ACTIVE
262 /! SYSTEM VOLTAGE IS VERY LOW
263 /! SYSTEM BATTERY ON DISCHARGE
264 /! SYSTEM HIGH VOLTAGE #1 ALARM
265 /! SYSTEM HIGH VOLTAGE #2 ALARM
266 /! 1 SYSTEM BREAKER OR FUSE ALARM
267 /! 2+ SYSTEM BREAKER & FUSE ALARMS
268 /! AC POWER IS OFF TO 1 PCU
269 /! AC POWER IS OFF TO 2+ PCUs
270 /! AC POWER IS OFF TO ALL PCUs
271 /! 1 PCU FAILURE ANY TYPE
272 /! 2+ PCU FAILURES ANY TYPE
273 /! 1 PCU FAILURE 'MAJOR' TYPE
274 /! 2+ PCU FAILURES 'MAJOR' TYPE
275 /! 1 PCU FAILURE 'MINOR' TYPE
276 /! 2+ PCU FAILURES 'MINOR' TYPE
277 /! NO PCUs ARE IN INVENTORY
278 /! 1 DIST. PANEL FAILURE
279 /! 2+ DIST. PANEL FAILURES
280 /! NO DIST. PANELS IN INVENTORY
281 /! 1 I/O BOARD FAILURE
282 /! 2+ I/O BOARD FAILURES
283 /! NO I/O BOARDS ARE IN INVENTORY
284 /! 1 ROUTER FAILURE
285 /! 2+ ROUTER FAILURES
286 /! NO ROUTERS ARE IN INVENTORY
287 /! 1 RELAY BOARD FAILURE
288 /! 2+ RELAY BOARD FAILURES
289 /! NO RELAY BOARDS ARE IN INVENTORY
290 /! HIGH TEMPERATURE #1 ALARM
291 /! HIGH TEMPERATURE #2 ALARM
292 /! LOW TEMPERATURE #1 ALARM
293 /! LOW TEMPERATURE #2 ALARM
294 /! TEMPERATURE SENSOR NO SIGNAL
295 /! MAJOR MONITORING ALARM(S)
296 /! MINOR MONITORING ALARM(S)
297 /! All Monitoring LED Messages
298 /! MONITORING DOES NOT RESPOND
299 /! CONTROLLER FAILURE
300 /! THE CONTROLLER IS INITIALIZING
301 /! TOTAL LOAD CURRENT ALARM
302 /! DIST. GROUP A LOAD ALARM
303 /! DIST. GROUP B LOAD ALARM
304 /! THE DISPLAY DOES NOT RESPOND
305 /! TEST/EQUALIZE MODE IS ACTIVE
306 /! THE AUDIBLE ALARM IS ACTIVE
307 /! AUDIBLE ALARMS ARE SILENCED
308 GO TO RELAY FUNCTION MENU
309 GO BACK TO MENU TREE BEGINNING
SYSTEM ADJUSTMENT MENU
214 FLOAT SETPOINT = vv.vv V
215 TEST/EQUALIZE = vv.vv V
POWER SHARE IS OFF TURN IT ON? or POWER SHARE IS ON TURN IT OFF? or 216 ALT. LIMIT IS OFF TURN IT ON? or ALT. LIMIT IS ON TURN IT OFF? or TURN OFF POWER SHARE or TURN OFF ALTERNATIVE CURRENT LIMIT or TURN OFF TEMPERATURE COMPENSATION
217 PS INITIAL CAPACITY LIMIT = ###%
218 PS VOLTAGE OFFSET = v.v V
218A ALTERNATE CURRENT LIMIT = ###%
219 HI VOLTAGE SHUTDOWN = vv.vv V
TEST H.V. SHUTDOWN = vv.vv V 220 LOSS IS POSSIBLE. GO AHEAD ANYWAY?
221 PCU CURRENT LIMIT = aaaaa A or PCU CURRENT LIMIT ALT. LIMIT or PCU CURRENT LIMIT POWER SHARE
222 100% PCU CURRENT IS aaaaa A
223 GO TO FUNCTION MENU
224 GO BACK TO MENU TREE BEGINNING
NETWORK ADDRESS MENU
from D (This sheet)
320B ##.##.##.##.## MAC ADDRESS
320C ###.###.###.### IP ADDRESS
320D ###.###.###.### NET MASK
320E ###.###.###.### GATEWAY
VALIDATE THE ADDRESS CHANGES? or 320F UPDATE/RESTART LMS WITH CHANGES? or THE CHANGES WERE REJECTED
to E (This sheet)
320G GO TO CONFIGURE MENU
320H GO BACK TO MENU TREE BEGINNING
from F (This sheet)
321D SN# IN SLOT POSITION ##
SAVE PCU MAPPING or 321E DUPLICATE MAPPING DETECTED
to G (This sheet)
321F GO TO CONFIGURE MENU
321G GO BACK TO MENU TREE BEGINNING

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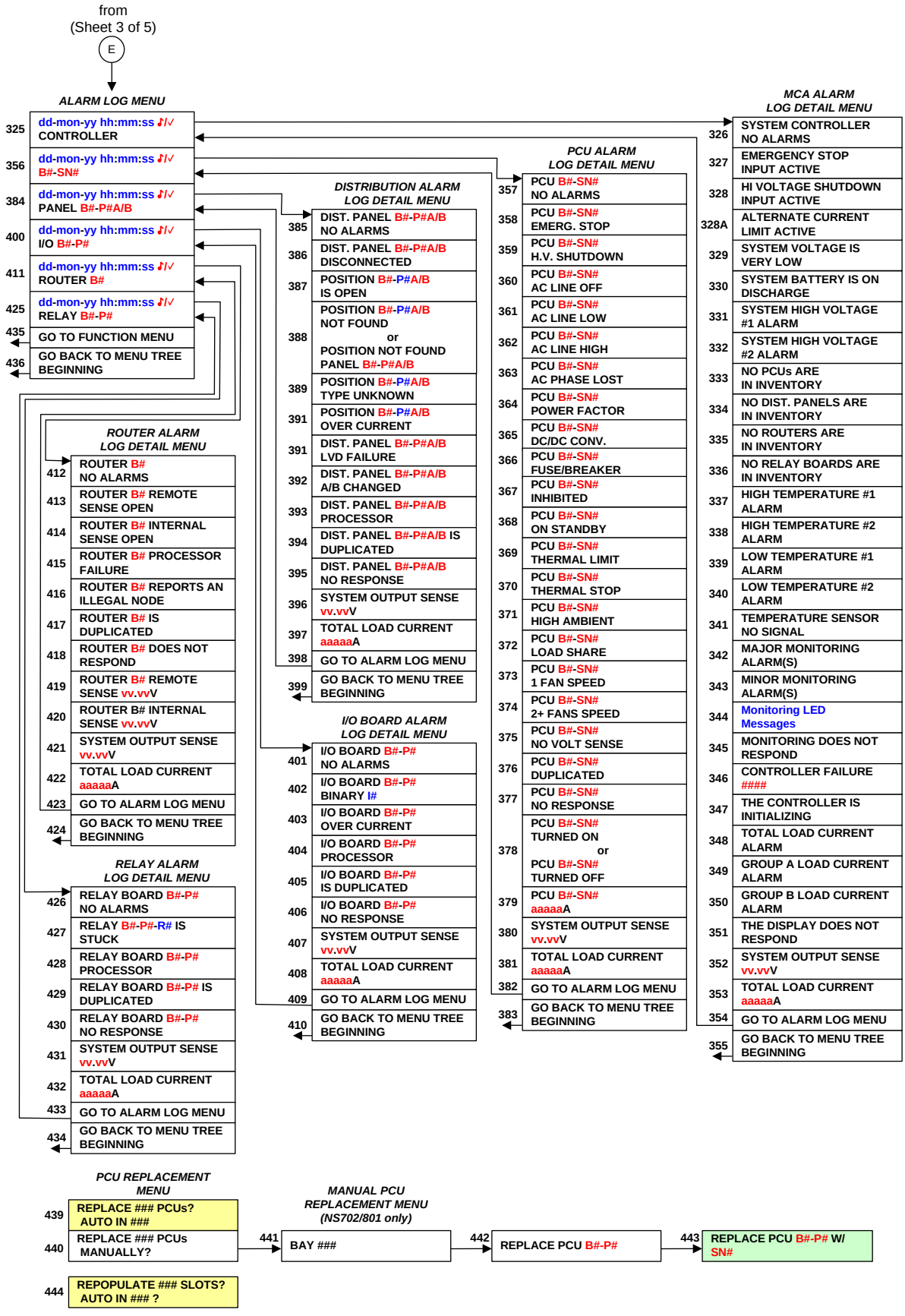
from
(Sheet 3 of 5)
E
ALARM LOG MENU
325 dd-mon-yy hh:mm:ss ♪/✓ CONTROLLER
356 dd-mon-yy hh:mm:ss ♪/✓ B#-SN#
384 dd-mon-yy hh:mm:ss ♪/✓ PANEL B#-P#A/B
400 dd-mon-yy hh:mm:ss ♪/✓ I/O B#-P#
411 dd-mon-yy hh:mm:ss ♪/✓ ROUTER B#
425 dd-mon-yy hh:mm:ss ♪/✓ RELAY B#-P#
435 GO TO FUNCTION MENU
436 GO BACK TO MENU TREE BEGINNING
ROUTER ALARM LOG DETAIL MENU
412 ROUTER B# NO ALARMS
413 ROUTER B# REMOTE SENSE OPEN
414 ROUTER B# INTERNAL SENSE OPEN
415 ROUTER B# PROCESSOR FAILURE
416 ROUTER B# REPORTS AN ILLEGAL NODE
417 ROUTER B# IS DUPLICATED
418 ROUTER B# DOES NOT RESPOND
419 ROUTER B# REMOTE SENSE vv.vvV
420 ROUTER B# INTERNAL SENSE vv.vvV
421 SYSTEM OUTPUT SENSE vv.vvV
422 TOTAL LOAD CURRENT aaaaaA
423 GO TO ALARM LOG MENU
424 GO BACK TO MENU TREE BEGINNING
RELAY ALARM LOG DETAIL MENU
426 RELAY BOARD B#-P# NO ALARMS
427 RELAY B#-P#-R# IS STUCK
428 RELAY BOARD B#-P# PROCESSOR
429 RELAY BOARD B#-P# IS DUPLICATED
430 RELAY BOARD B#-P# NO RESPONSE
431 SYSTEM OUTPUT SENSE vv.vvV
432 TOTAL LOAD CURRENT aaaaaA
433 GO TO ALARM LOG MENU
434 GO BACK TO MENU TREE BEGINNING
DISTRIBUTION ALARM LOG DETAIL MENU
385 DIST. PANEL B#-P#A/B NO ALARMS
386 DIST. PANEL B#-P#A/B DISCONNECTED
387 POSITION B#-P#A/B IS OPEN
388 POSITION B#-P#A/B NOT FOUND or POSITION NOT FOUND PANEL B#-P#A/B
389 POSITION B#-P#A/B TYPE UNKNOWN
391 POSITION B#-P#A/B OVER CURRENT
391 DIST. PANEL B#-P#A/B LVD FAILURE
392 DIST. PANEL B#-P#A/B A/B CHANGED
393 DIST. PANEL B#-P#A/B PROCESSOR
394 DIST. PANEL B#-P#A/B IS DUPLICATED
395 DIST. PANEL B#-P#A/B NO RESPONSE
396 SYSTEM OUTPUT SENSE vv.vvV
397 TOTAL LOAD CURRENT aaaaaA
398 GO TO ALARM LOG MENU
399 GO BACK TO MENU TREE BEGINNING
I/O BOARD ALARM LOG DETAIL MENU
401 I/O BOARD B#-P# NO ALARMS
402 I/O BOARD B#-P# BINARY I#
403 I/O BOARD B#-P# OVER CURRENT
404 I/O BOARD B#-P# PROCESSOR
405 I/O BOARD B#-P# IS DUPLICATED
406 I/O BOARD B#-P# NO RESPONSE
407 SYSTEM OUTPUT SENSE vv.vvV
408 TOTAL LOAD CURRENT aaaaaA
409 GO TO ALARM LOG MENU
410 GO BACK TO MENU TREE BEGINNING
PCU ALARM LOG DETAIL MENU
357 PCU B#-SN# NO ALARMS
358 PCU B#-SN# EMERG. STOP
359 PCU B#-SN# H.V. SHUTDOWN
360 PCU B#-SN# AC LINE OFF
361 PCU B#-SN# AC LINE LOW
362 PCU B#-SN# AC LINE HIGH
363 PCU B#-SN# AC PHASE LOST
364 PCU B#-SN# POWER FACTOR
365 PCU B#-SN# DC/DC CONV.
366 PCU B#-SN# FUSE/BREAKER
367 PCU B#-SN# INHIBITED
368 PCU B#-SN# ON STANDBY
369 PCU B#-SN# THERMAL LIMIT
370 PCU B#-SN# THERMAL STOP
371 PCU B#-SN# HIGH AMBIENT
372 PCU B#-SN# LOAD SHARE
373 PCU B#-SN# 1 FAN SPEED
374 PCU B#-SN# 2+ FANS SPEED
375 PCU B#-SN# NO VOLT SENSE
376 PCU B#-SN# DUPLICATED
377 PCU B#-SN# NO RESPONSE
378 PCU B#-SN# TURNED ON or PCU B#-SN# TURNED OFF
379 PCU B#-SN# aaaaaA
380 SYSTEM OUTPUT SENSE vv.vvV
381 TOTAL LOAD CURRENT aaaaaA
382 GO TO ALARM LOG MENU
383 GO BACK TO MENU TREE BEGINNING
MCA ALARM LOG DETAIL MENU
326 SYSTEM CONTROLLER NO ALARMS
327 EMERGENCY STOP INPUT ACTIVE
328 HI VOLTAGE SHUTDOWN INPUT ACTIVE
328A ALTERNATE CURRENT LIMIT ACTIVE
329 SYSTEM VOLTAGE IS VERY LOW
330 SYSTEM BATTERY IS ON DISCHARGE
331 SYSTEM HIGH VOLTAGE #1 ALARM
332 SYSTEM HIGH VOLTAGE #2 ALARM
333 NO PCUs ARE IN INVENTORY
334 NO DIST. PANELS ARE IN INVENTORY
335 NO ROUTERS ARE IN INVENTORY
336 NO RELAY BOARDS ARE IN INVENTORY
337 HIGH TEMPERATURE #1 ALARM
338 HIGH TEMPERATURE #2 ALARM
339 LOW TEMPERATURE #1 ALARM
340 LOW TEMPERATURE #2 ALARM
341 TEMPERATURE SENSOR NO SIGNAL
342 MAJOR MONITORING ALARM(S)
343 MINOR MONITORING ALARM(S)
344 Monitoring LED Messages
345 MONITORING DOES NOT RESPOND
346 CONTROLLER FAILURE ####
347 THE CONTROLLER IS INITIALIZING
348 TOTAL LOAD CURRENT ALARM
349 GROUP A LOAD CURRENT ALARM
350 GROUP B LOAD CURRENT ALARM
351 THE DISPLAY DOES NOT RESPOND
352 SYSTEM OUTPUT SENSE vv.vvV
353 TOTAL LOAD CURRENT aaaaaA
354 GO TO ALARM LOG MENU
355 GO BACK TO MENU TREE BEGINNING
PCU REPLACEMENT MENU
439 REPLACE ### PCUs? AUTO IN ###
440 REPLACE ### PCUs MANUALLY?
444 REPOPULATE ### SLOTS? AUTO IN ### ?
MANUAL PCU REPLACEMENT MENU (NS702/801 only)
441 BAY ###
442 REPLACE PCU B#-P#
443 REPLACE PCU B#-P# W/ SN#

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REVISION RECORD

Issue	Change Number (ECO)	Description of Change
AA	LLP035201	New
AB	LLP203036	Updated for MCA version 1.2.0.1
AC	LLP210933	Updated for MCA version 2.0.0.21 (relay test feature enhanced, Power Share feature added [legacy rectifier interface], support for 582140001 added).
AD	LLP212061	Updated for MCA Version 2.1.0.4 (System Load Menu Added, PCU/Rectifier MCA Identification Changed)
AE	LLP213082	Updates for MCA version 2.2.0.6.
AF	LLP214855	Updated for MCA Version 2.3.0.5 (PCU mapping menu added).

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